PSD520

Transcend PSD is a series of 2.5 PATA SSD with high performance and advanced flash control techniques. Due to smaller size (fit the standard dimensions of 2.5" IDE Hard Disk Drives), huge capacity, high speed, and low power consumption, Solid State Disk is perfect replacement storage device for PCs, Laptops, gaming systems, and handheld devices.

Features

- RoHS compliant products
- Single Power Supply: 5V±10%
- Built-in BCH ECC (Error Correction Code) functionality
- Support Global Wear-Leveling, Static Data Refresh, Early Retirement, and Erase Count Monitor functions to extend product life
- True IDE Mode supports:
  - Ultra DMA Mode 0 to Ultra DMA Mode 6
  - MultiWord DMA Mode 0 to MultiWord DMA Mode 2
  - PIO Mode 0 to PIO Mode 4
- Support S.M.A.R.T (Self-defined)
- Support Security Command
- Support Host Protected Area
- MTBF: 1,000,000 hours (in 25 °C)

Dimensions

Side	Millimeters	Inches
A	100.30 ± 0.40	3.949 ± 0.016
B	69.85 ± 0.20	2.750 ± 0.008
C	7.40 ± 0.15	0.292 ± 0.004

Specifications

Capacity					
Model P/N	**Cylinder**	**Head**	**Sector**	**User LBA**	**Physical Capacity**
TS32GPSD520	16383	15	63	62,533,632	32,018,219,584 Byte
TS64GPSD520	16383	15	63	125,044,736	64,002,424,832 Byte

Note. PSD520 series is shipped with RAW format. Inquiry for formatted device please contact with sales/PM.

Performance (MB/s)				
	Sequential Read	**Sequential Write**	**Random 4K Read**	**Random 4K Write**
32GB	118.3	102.4	11.58	1.73
64GB	111	97	10.96	1.849

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Note : Test by Crystal Disk Mark V3.0.1, 500MB size @25 °C, P5K-VM(ICH 9), 1GB RAM * 2, IDE interface support up to UDMA6, Windows® XP SP3.

Power consumption (mA)		
Capacity	**32GB**	**64GB**
Read	252.8	266
Write	257.3	268
Idle	8.7	7.8

Note: All data above are maximum value from various test patterns.

Endurance		
Capacity	**32GB**	**64GB**
Tera Byte Write	666.6 TBW	1333.2 TBW

Note: Based on JEDEC JESD218A specification, Client Application Class. And based on the following scenario: Active use: 40°C, 8hrs/day; Retention use: 30°C 1year.

Interface			
Part Number	**Interface**	**Transfer Mode**	**Connector**
TS32G~64G520	True IDE mode	Ultra DMA mode 0~6 Multi-Word DMA Mode 0~2 PIO Mode 0~4	44pin 2mm pitch Pin male Header

Environmental Specifications	
Operating Temperature	-40 °C to 85 °C
Storage Temperature	-40 °C to 85 °C
Operating Humidity (Non condensation)	0% to 95%
Storage Humidity (Non condensation)	0% to 95%

SHOCK & Vibration Test		
	Condition	**Standard**
Mechanical Shock Test	1500G, 0.5ms, 3 axes	IEC 60068-2-27
Vibration Test	20G (Peak-to-Peak) 20Hz to 2000Hz (Frequency)	IEC 60068-2-6

Note: If Third party report is needed, please contact with sales/PM.

EMC/EMI	
Compliance	CE, FCC and BSMI

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